# CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/017/2022-23 Date: 04.05.2022

## TEST REPORT ON CEMENT

**Client** : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
**Agency** : **Sri. Rangashamaiah,** Contractor, Bangalore.
**Name of Work** :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore
**Sample :** :Cement (Dalmia 53 grade OPC)
**Sample Supplied by:** :AGENCY
**Date of Manufacture:** : April - 2022
**Date of Testing** : 02.05.2022 to 04.05.2022

| Sl.No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 269:2015 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part - 5):1988(RA 2014) | 145 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part - 5):1988(RA 2014) | 365 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method | 1 mm | Not more than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part -4) | 29.50% | - |

**Note:**

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Asst. Executive Engineer
Yeshwanthpura Sub-Division
Bruhat Bangalore Mahanagara Palike

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 05
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Job No.: CQCE/BBMP/RS/017/2022-23

Date : 04.05.2022

## TEST REPORT ON FINE AGGREGATES (SAND)
### IS 1542-1992

**Client** : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
**Agency** : **Sri. Rangashamaiah,** Contractor, Bangalore.
**Name of Work** :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore
**Date of Testing** : 04.05.2022
**Material** : Sand(Plastering)

Total wt. of aggregates in gms = **1000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits as per IS 1542-1992 |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 15 | 1.50 | 1.50 | 98.5 | 95-100 |
| 2.36 | 17 | 1.70 | 3.20 | 96.8 | 95-100 |
| 1.18 | 34 | 3.40 | 6.60 | 93.4 | 90-100 |
| 600 Micron | 72 | 7.20 | 13.80 | 86.2 | 80-100 |
| 300 Micron | 245 | 24.50 | 38.30 | 61.7 | 20-65 |
| 150 Micron | 516 | 51.60 | 89.90 | 10.1 | 0-15 |

**Note:**
1. The Material is Satisfied as per the Requirements.

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Yeshwanthpura Sub-Division
Bruhat Bangalore Mahanagara Palike

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/017/2022-23

Date : 04.05.2022

## TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

**Client** : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
**Agency** : **Sri. Rangashamaiah,** Contractor, Bangalore.
**Name of Work** :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore
**Date of Testing** : 04.05.2022
**Material** : Sand(Masonry)

Total wt. of aggregates in gms = **1000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits as per IS 2116-1980 |
|---|---|---|---|---|---|
| 4.75 | 0 | 0.00 | 0.00 | 100.0 | 100 |
| 2.36 | 17 | 1.70 | 1.70 | 98.3 | 90-100 |
| 1.18 | 37 | 3.70 | 5.40 | 94.6 | 70-100 |
| 600 Micron | 82 | 8.20 | 13.60 | 86.4 | 40-100 |
| 300 Micron | 268 | 26.80 | 40.40 | 59.6 | 5-70 |
| 150 Micron | 488 | 48.80 | 89.20 | 10.8 | 0-15 |

**Note:**

1. The Material is Satisfied as per the Requirements.

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Job No.: CQCE/BBMP/RS/017/2022-23 Date : 04.05.2022

## TEST REPORT ON FINE AGGREGATES (SAND)

| | |
|---|---|
| **Client** | **: Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore. |
| **Agency** | **: Sri. Rangashamaiah,** Contractor, Bangalore. |
| **Name of Work** | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| **Date of Testing** | : 04.05.2022 |
| **IS Code** | :IS 383:2016 |
| | :IS 2386 (Part 1):1963(RA 2011) |
| **Material** | : Sand |

Total Wt. of Aggregates in gms **1000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Requirements as per IS 383:2016 Spec.Limits For Zone-II |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 63 | 6.30 | 6.30 | 93.7 | 90-100 |
| 2.36 | 148 | 14.80 | 21.10 | 78.9 | 75-100 |
| 1.18 | 156 | 15.60 | 36.70 | 63.3 | 55-90 |
| 600 Micron | 244 | 24.40 | 61.10 | 38.9 | 35-59 |
| 300 Micron | 158 | 15.80 | 76.90 | 23.1 | 8-30 |
| 150 Micron | 146 | 14.60 | 91.50 | 8.5 | 0-10 |

**Note:**

1. The Material is Satisfied as per the Requirements.

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Job No.: CQCE/BBMP/RS/017/2022-23

Date : 04.05.2022

## TEST REPORT ON COARSE AGGREGATES

**Client** : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
**Agency** : **Sri. Rangashamaiah,** Contractor, Bangalore.
**Name of Work** :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore
Date of Testing : 04.05.2022
**IS Code** :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Requirements as per IS 383:2016 |
|---|---|---|---|---|---|
| 80 | 0 | 0 | 0 | 100 | 100 |
| 40 | 223 | 1.49 | 1.49 | 98.51 | 95-100 |
| 20 | 8365 | 55.77 | 57.25 | 42.75 | 30-70 |
| 10 | 3265 | 21.77 | 79.02 | 20.98 | 10-35 |
| 4.75 | 2587 | 17.25 | 96.27 | 3.73 | 0-5 |

**Note:**

1. The Material is Satisfied as per the Requirements.

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Job No.: CQCE/BBMP/RS/017/2022-23

Date : 04.05.2022

## TEST REPORT ON COARSE AGGREGATES

| | |
|---|---|
| **Client** | **: Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore. |
| **Agency** | **: Sri. Rangashamaiah,** Contractor, Bangalore. |
| **Name of Work** | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| Date of Testing | : 04.05.2022 |
| **IS Code** | :IS 383:2016 |
| | :IS 2386 (Part 1):1963(RA 2011) |
| Material | : 20mm Aggregates |

Total Wt. of Aggregates in gms= **5000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Requirements as per IS 383:2016 |
|---|---|---|---|---|---|
| 40 | 0 | 0 | 0 | 100 | 100 |
| 20 | 185 | 3.7 | 3.7 | 96.3 | 95-100 |
| 10 | 2748 | 55.0 | 58.7 | 41.3 | 25-55 |
| 4.75 | 1748 | 35.0 | 93.6 | 6.4 | 0-10 |

**Note:**

1. The Material is Satisfied as per the Requirements.

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Job No.: CQCE/BBMP/RS/017/2022-23

Date: 06.06.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| **Client** | **: Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore. |
| **Agency** | **: Sri. Rangashamaiah,** Contractor, Bangalore. |
| **Name of the work** | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| **Sample ID** | : Cement Concrete |
| **Size of cubes** | : 150mmx150mmx150mm |
| **Cross Sectional Area** | : 22500 $mm^2$ |
| **Technical Reference** | : IS: 516-1959 (Reaffirmed 2008) |
| **Grade of Concrete** | : $M_{20}$ |
| **Compressive Strength as on** | : 7th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 30.05.2022 | 06.06.2022 | 8.125 | 368.4 | 16.37 |
| 2 | 30.05.2022 | 06.06.2022 | 8.104 | 377.8 | 16.79 |
| 3 | 30.05.2022 | 06.06.2022 | 8.038 | 400.1 | 17.78 |

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/017/2022-23

Date: 27.06.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Client | : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore. |
| Agency | : **Sri. Rangashamaiah,** Contractor, Bangalore. |
| Name of the work | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : 28th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 30.05.2022 | 27.06.2022 | 8.152 | 511.6 | 22.74 |
| 2 | 30.05.2022 | 27.06.2022 | 8.057 | 521.4 | 23.17 |
| 3 | 30.05.2022 | 27.06.2022 | 8.009 | 531.8 | 23.64 |

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Job No.: CQCE/BBMP/RS/017/2022-23

Date: 06.06.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| **Client** | **: Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore. |
| **Agency** | **: Sri. Rangashamaiah,** Contractor, Bangalore. |
| **Name of the work** | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| **Sample ID** | : Cement Concrete |
| **Size of cubes** | : 150mmx150mmx150mm |
| **Cross Sectional Area** | : 22500 $mm^2$ |
| **Technical Reference** | : IS: 516-1959 (Reaffirmed 2008) |
| **Grade of Concrete** | : $M_{20}$ |
| **Compressive Strength as on** | : 7th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 30.05.2022 | 06.06.2022 | 8.114 | 368.4 | 16.37 |
| 2 | 30.05.2022 | 06.06.2022 | 8.168 | 381.8 | 16.97 |
| 3 | 30.05.2022 | 06.06.2022 | 8.017 | 389.5 | 17.31 |

Note:

1. The Material is Satisfied as per the Requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Job No.: CQCE/BBMP/RS/017/2022-23

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## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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|---|---|
| Client | : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore. |
| Agency | : **Sri. Rangashamaiah,** Contractor, Bangalore. |
| Name of the work | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : 28th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 30.05.2022 | 27.06.2022 | 8.117 | 498.7 | 22.16 |
| 2 | 30.05.2022 | 27.06.2022 | 8.077 | 510.4 | 22.68 |
| 3 | 30.05.2022 | 27.06.2022 | 8.018 | 518.8 | 23.06 |

Note:

1. The Material is Satisfied as per the Requirements.

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Date: 06.06.2022

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| | |
|---|---|
| Client | : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore. |
| Agency | : **Sri. Rangashamaiah,** Contractor, Bangalore. |
| Name of the work | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : 7th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 30.05.2022 | 06.06.2022 | 8.022 | 377.8 | 16.79 |
| 2 | 30.05.2022 | 06.06.2022 | 8.066 | 388.4 | 17.26 |
| 3 | 30.05.2022 | 06.06.2022 | 8.099 | 399.6 | 17.76 |

Note:

1. The Material is Satisfied as per the Requirements.

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## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| **Client** | **: Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore. |
| **Agency** | **: Sri. Rangashamaiah,** Contractor, Bangalore. |
| **Name of the work** | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| **Sample ID** | : Cement Concrete |
| **Size of cubes** | : 150mmx150mmx150mm |
| **Cross Sectional Area** | : 22500 $mm^2$ |
| **Technical Reference** | : IS: 516-1959 (Reaffirmed 2008) |
| **Grade of Concrete** | : $M_{20}$ |
| **Compressive Strength as on** | : 28th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 30.05.2022 | 27.06.2022 | 8.106 | 511.7 | 22.74 |
| 2 | 30.05.2022 | 27.06.2022 | 8.047 | 522.8 | 23.24 |
| 3 | 30.05.2022 | 27.06.2022 | 8.188 | 535.9 | 23.82 |

Note:

1. The Material is Satisfied as per the Requirements.

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Job No.: CQCE/BBMP/RS/017/2022-23

Date: 06.06.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Client | : Assistant Executive Engineer, Yeshwanthpura Sub Division, BBMP, Bangalore. |
| Agency | : Sri. Rangashamaiah, Contractor, Bangalore. |
| Name of the work | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : 7th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 30.05.2022 | 06.06.2022 | 8.031 | 364.8 | 16.21 |
| 2 | 30.05.2022 | 06.06.2022 | 8.171 | 375.9 | 16.71 |
| 3 | 30.05.2022 | 06.06.2022 | 8.119 | 385.4 | 17.13 |

Note:

1. The Material is Satisfied as per the Requirements.

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Job No.: CQCE/BBMP/RS/017/2022-23

Date: 27.06.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Client | : Assistant Executive Engineer, Yeshwanthpura Sub Division, BBMP, Bangalore. |
| Agency | : Sri. Rangashamaiah, Contractor, Bangalore. |
| Name of the work | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : 28th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 30.05.2022 | 27.06.2022 | 8.112 | 509.4 | 22.64 |
| 2 | 30.05.2022 | 27.06.2022 | 8.045 | 516.8 | 22.97 |
| 3 | 30.05.2022 | 27.06.2022 | 8.061 | 527.6 | 23.45 |

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/017/2022-23

Date: 06.06.2022

# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Client | : Assistant Executive Engineer, Yeshwanthpura Sub Division, BBMP, Bangalore. |
| Agency | : Sri. Rangashamaiah, Contractor, Bangalore. |
| Name of the work | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : 7th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 30.05.2022 | 06.06.2022 | 8.029 | 369.7 | 16.43 |
| 2 | 30.05.2022 | 06.06.2022 | 8.139 | 378.6 | 16.83 |
| 3 | 30.05.2022 | 06.06.2022 | 8.176 | 385.9 | 17.15 |

Note:

1. The Material is Satisfied as per the Requirements.

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Job No: CQCE/BBMP/RS/017/2022-23

Date: 27.06.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Client | : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore. |
| Agency | : **Sri. Rangashamaiah,** Contractor, Bangalore. |
| Name of the work | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{30}$ |
| Compressive Strength as on | : 28th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 30.05.2022 | 27.06.2022 | 8.007 | 508.7 | 22.61 |
| 2 | 30.05.2022 | 27.06.2022 | 8.085 | 515.9 | 22.93 |
| 3 | 30.05.2022 | 27.06.2022 | 8.116 | 526.8 | 23.41 |

Note:

1. The Material is Satisfied as per the Requirements.

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Ref No: CQCE/BBMP/RS/017/2022-23

Date: 06.06.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Client | : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore. |
| Agency | : **Sri. Rangashamaiah,** Contractor, Bangalore. |
| Name of the work | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : 7th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 30.05.2022 | 06.06.2022 | 8.110 | 370.8 | 16.48 |
| 2 | 30.05.2022 | 06.06.2022 | 8.177 | 379.9 | 16.88 |
| 3 | 30.05.2022 | 06.06.2022 | 8.099 | 389.4 | 17.31 |

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

CQCE/BBMP/RS/017/2022-23

Date: 27.06.2022

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Client | : Assistant Executive Engineer, Yeshwanthpura Sub Division, BBMP, Bangalore. |
| Agency | : Sri. Rangashamaiah, Contractor, Bangalore. |
| Name of the work | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : 28th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 30.05.2022 | 27.06.2022 | 8.136 | 519.4 | 23.08 |
| 2 | 30.05.2022 | 27.06.2022 | 8.039 | 528.7 | 23.50 |
| 3 | 30.05.2022 | 27.06.2022 | 8.098 | 536.3 | 23.84 |

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/017/2022-23

Date 07.05.2022

## TEST REPORT ON SOLID CONCRETE BLOCKS

**Client** : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Rangashamaiah,** Contractor, Bangalore.

**Name of the Work** :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore

**Date of Testing** 07.05.2022

**Size of Blocks** : 400mm x 100mm x 200mm

**Cross Sectional Area** : 40000 $mm^2$

**Technical Reference** : IS: 2185 (Part 1) - 2005

**No. of Blocks Tested** : 04

| Sl.No. | Block ID | Wt. in Kg | Failure load (KN) | Compressive strength ($N/mm^2$) | Block Density in $Kg/M^3$ | Requirement as per IS 2185 (Part 1) - 2005 |
|---|---|---|---|---|---|---|
| 1 | Block 1 | 16.4 | 142.5 | 3.56 | 2050.00 | **Minimum required Compressive Strength of Individual Units 3.5N/$mm^2$** |
| 2 | Block 2 | 15.2 | 146.7 | 3.67 | 1900.00 | |
| 3 | Block 3 | 16.8 | 145.1 | 3.63 | 2100.00 | |
| 4 | Block 4 | 15.5 | 144.2 | 3.61 | 1937.50 | |

Note:

1. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/017/2022-23

Date 14.05.2022

# TEST REPORT ON CERAMIC TILES

*Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

*Agency : **Sri. Rangashamaiah,** Contractor, Bangalore.

*Name of Work :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore

Technical Reference : IS: 13630 - 2006 - Method of Testing Ceramic Tiles
IS 15622 - 2006 - Specification of Ceramic Tiles

No. of Samples Tested : 05 (Five)

Date of Testing : 09.05.2022 to 14.05.2022

## I. MODULUS OF RUPTURE

| Sl. No. | Measured Dimension (mm) | Modulus of Rupture ($N/mm^2$) | Average ($N/mm^2$) | Requirement as per IS: 15622 (Reaffirmed 2006) |
|---|---|---|---|---|
| 1 | 300x300x5.2 | 46.7 | 47.66 | Average 47, indivisual minimum 44 $N/mm^2$ |
| 2 | 300x300x5.3 | 47.3 | | |
| 3 | 300x300x5.5 | 48.6 | | |
| 4 | 300x300x5.6 | 47.4 | | |
| 5 | 300x300x5.4 | 48.3 | | |

## II. CHEMICAL RESISTANCE

| Sl. No. | Measured Dimension (mm) | Visual observations | Requirement as per IS: 15622 (Reaffirmed 2006) |
|---|---|---|---|
| 1 | 300x300x5.2 | No visible effect | Class AA, min (13630 Part 8) |
| 2 | 300x300x5.3 | No visible effect | |
| 3 | 300x300x5.5 | No visible effect | |
| 4 | 300x300x5.6 | No visible effect | |
| 5 | 300x300x5.4 | No visible effect | |

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III. STAIN RESISTANCE

| Sl. No. | Measured Dimension (mm) | Visual observations | Requirement as per IS: 15622 (Reaffirmed 2006) |
|---|---|---|---|
| 1 | 300x300x5.2 | Stain Removed by Water | Class 1, min (13630 Part 8) |
| 2 | 300x300x5.3 | Stain Removed by Water | |
| 3 | 300x300x5.5 | Stain Removed by Water | |
| 4 | 300x300x5.6 | Stain Removed by Water | |
| 5 | 300x300x5.4 | Stain Removed by Water | |

Note:

. The Material is Satisfied as per the Requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/017/2022-23

Date : 04.05.2022

## TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

| | |
|---|---|
| **Client** | **: Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore. |
| **Agency** | **: Sri. Rangashamaiah,** Contractor, Bangalore. |
| **Name of Work** | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| **Steel Dia/Length** | : 8mm,10mm,12mm" TMT" |
| **Reference to BIS codes** | : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification |
| | : IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature |
| **Date of test** | : 04.05.2022 |

| S.No | Brand | Nominal size (dia in mm) | Mass per meter (kg/meter) | TENSILE STRENGTH | | | |
|---|---|---|---|---|---|---|---|
| | | | | 0.20 % proof stress/ yield stress ($N/mm^2$) | Tensile strength ($N/mm^2$) | TS/YS ratio | Elongation, percent on gauge length |
| 1 | TMT | 8 | 0.397 | 510 | 605 | 1.19 | 14.5 |
| 2 | TMT | 10 | 0.618 | 521 | 614 | 1.18 | 17 |
| 3 | TMT | 12 | 0.889 | 526 | 611 | 1.16 | 19 |

**Note:**

1. The Material is Satisfied as per the Requirements.

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Job No.: CQCE/BBMP/RS/017/2022-23 Date: 18.05.2022

## TEST REPORT ON CPVC PIPE

| | |
|---|---|
| **Client** | **: Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore. |
| **Agency** | **: Sri. Rangashamaiah,** Contractor, Bangalore. |
| **Name of Work** | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| **Sample Supplied by:** | :AGENCY |
| **BIS Code:** | IS 13360(Part3/Sec 1):1995<br>IS 15778:2007 |
| **Sample Identification:** | CPVC pipe 15mm dia |
| **Date of Testing** | 17.05.2022 to 18.05.2022 |

| Sl.No | Test | Test Result | Requirements as per IS: 15778:2007 |
|---|---|---|---|
| 1 | Nominal Outer Diameter (mm) | 15.9 | 15.9 mm |
| 2 | Mean Outside Diameter (mm) | 15.8 | Min 15.8 mm<br>Max 16 mm |
| 3 | Outside Diameter at Any Point (mm) | 15.90% | Min 15.8 mm<br>Max 16 mm |
| 4 | Density | 1494 $Kg/m^3$ | 1450 $Kg/m^3$ & 1650 $Kg/m^3$ |

**Note:**

1. The Material is Satisfied as per the Requirements.

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Job No.: CQCE/BBMP/RS/017/2022-23

Date: 18.05.2022

## TEST REPORT ON CPVC PIPE

**Client** : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Rangashamaiah,** Contractor, Bangalore.

**Name of Work** :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore

**Sample Supplied by:** :AGENCY

**BIS Code:** IS 13360(Part3/Sec 1):1995
IS 15778:2007

**Sample Identification:** CPVC pipe 20mm dia

**Date of Testing** : 17.05.2022 to 18.05.2022

| Sl.No | Test | Test Result | Requirements as per IS: 15778:2007 |
|---|---|---|---|
| 1 | Nominal Outer Diameter (mm) | 22.2 | 22.2 mm |
| 2 | Mean Outside Diameter (mm) | 22.2 | Min 22.1 mm<br>Max 22.3 mm |
| 3 | Outside Diameter at Any Point (mm) | 22.30% | Min 22 mm<br>Max 22.4 mm |
| 4 | Density | 1467 Kg/$m^3$ | 1450 Kg/$m^3$ & 1650 Kg/$m^3$ |

**Note:**

1. The Material is Satisfied as per the Requirements.

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Job No.: CQCE/BBMP/RS/017/2022-23 18.05.2022

## TEST REPORT ON CPVC PIPE

**Client** : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.

**Agency** : **Sri. Rangashamaiah,** Contractor, Bangalore.

**Name of Work** :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore

**Sample Supplied by:** :AGENCY

**BIS Code:** IS 13360(Part3/Sec 1):1995
IS 15778:2007

**Sample Identification:** CPVC pipe 25mm dia

**Date of Testing** 18.05.2022

| Sl.No | Test | Test Result | Requirements as per IS: 15778:2007 |
|---|---|---|---|
| 1 | Nominal Outer Diameter (mm) | 28.6 | 28.6 mm |
| 2 | Mean Outside Diameter (mm) | 28.6 | Min 28.5 mm<br>Max 28.7 mm |
| 3 | Outside Diameter at Any Point (mm) | 28.70% | Min 28.4 mm<br>Max 28.8 mm |
| 4 | Density | 1485 Kg/$m^3$ | 1450 Kg/$m^3$ & 1650 Kg/$m^3$ |

**Note:**

1. The Material is Satisfied as per the Requirements.

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Job No.: CQCE/BBMP/RS/017/2022-23

Date: 28.05.2022

# TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

| | |
|---|---|
| *Client* | : **Assistant Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore. |
| Agency | : **Sri. Rangashamaiah,** Contractor, Bangalore. |
| Name of Work | :Construction of Toilets Insides JP Park In Ward No 17, BBMP, Bangalore |
| Reference to BIS codes | : IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification<br>IS 3495 (Part 1 to 3) : 1992(RA 2011)<br>Method of Tests Burnt Clay Building Bricks<br>Part 1:Determination of Compressive Strength, (Cl 4.2.3)<br>Part 2:Determination of Water Absorption,(Cl 4.1.3)<br>Part 3: Determination of Efflorescence, (Cl 4) |
| Date of test | : 23.05.2022 to 28.05.2022 |

## COMPRESSIVE STRENGTH

| Sl.No. | Compressive strength of individual bricks (N/mm2) | Acceptability as per IS 1077:1992, Clause 7.1 |
|---|---|---|
| 1 | 5.6 | The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%. |
| 2 | 5.4 | |
| 3 | 5.2 | |
| 4 | 5.7 | |
| 5 | 5.5 | |
| **Average of 5 bricks** | **5.5** | |

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**WATER ABSORPTION:**

| Sl.No. | Water Absorption(%) | Acceptability as per IS 1077:1992, Clause 7.2 |
|---|---|---|
| 1 | 10.5 | The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes. |
| 2 | 11.3 | |
| 3 | 10.6 | |
| 4 | 10.4 | |
| 5 | 10.9 | |
| Average of 5 bricks | 10.7 | |

**EFFLORESCENCE:**

| Sl.No. | Efflorescence | Acceptability as per IS 1077:1992, Clause 7.3 |
|---|---|---|
| 1 | Moderate | The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higher classes. |
| 2 | Moderate | |
| 3 | Moderate | |
| 4 | Moderate | |
| 5 | Moderate | |

**DIMENSIONS AND TOLERANCES**

| Sl.No. | Dimensions obtained for 20 bricks(mm) | | Acceptability as per IS 1077:1992, Clause 6.2(b) |
|---|---|---|---|
| 1 | Length | 4628 | 4520 to 4680 mm |
| 2 | Width | 2167 | 2160 to 2240 mm |
| 3 | Height | 1399 | 1360 to 1440 mm |

*Note:*

1. The Material is Satisfied as per the Requirements.

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